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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/569,582	08/22/2006	Kenichi Kudo	YAMAP1004US	5887	
49076 7590 96212011 MARK D. SARALINO (GENERAL) RENNER, OTTO, BOISSELLE & SKLAR, LLP			EXAM	EXAMINER	
			AHMED, HASAN SYED		
	D AVENUE, NINETEENTH FLOOR D. OH 44115-2191 ARTUNIT PAPER NUM			PAPER NUMBER	
CLL TELL TO	, 011 11110 2171		1615	•	
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			06/21/2011	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/569 582 KUDO ET AL. Office Action Summary Examiner Art Unit HASAN AHMED 1615 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 19 November 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1 and 2 is/are pending in the application. Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) ✓ Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) because to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

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PT	OL-326 (Rev. 08	-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Fatent Drawing Seview (FTO-942)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 10/28/10.

Attachment(s)

4) Interview Summary (PTO-413)

Parer No(s)/Mail Date.

5) Notice of Informal Patent Application

6) Other:

Application/Control Number: 10/569,582 Page 2

Art Unit: 1615

DETAILED ACTION

Receipt is acknowledged of applicants': (a) remarks, filed on 20 October 2010; (b) IDS, filed on 28 October 2010 and (c) RCE, filed on 19 November 2010.

Applicants' arguments filed on 20 October 2010 have been considered but are moot in view of the new grounds of rejection.

Status of the Claims

Claims 3-12 have been canceled. Claims 1 and 2 are under active prosecution and have been rejected.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on 28 October 2010 has been entered.

* * * * * Information Disclosure Statement

The information disclosure statement (IDS) submitted on 28 October 2010 was filed after the mailing date of the final rejection on 21 July 2010. The submission is in

Application/Control Number: 10/569,582

Art Unit: 1615

compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

* * * * *

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 2004/0009218 ("Kitamura") in view of U.S. Patent No. 6,677,142 ("Weissmuller") (both references were cited in the IDS filed on 23 February 2006) further in view of U.S. Patent No. 6,596,311 ("Dobetti") (see PTO-892).

Kitamura teaches a biodegradable article formed from an entirely linear amylose that has a weight average molecular weight of not less than 100 kDa (equivalent to a degree of polymerization of 615) (reading on claim 1) and has a narrow molecular weight distribution, which is obtained by enzyme-synthesis using phosphorylase (reading on claim 2) (see p. [0020]).

Kitamura further explains that the disclosed biodegradable article is formed from enzyme-synthesized amylose using phosphorylase, wherein the enzyme-synthesized amylose is composed of glucose monomers exclusively bonded by alpha-1,4-glucosidic linkage (reading on claim 1) (see p. [0021]). The disclosed enzyme-synthesized

Application/Control Number: 10/569.582

Art Unit: 1615

amylose has a dispersity (Mw/Mn) of not more than 1.25 (see p. [0027]) (reading on claim 1).

Kitamura explains that the disclosed biodegradable article is beneficial in that it has excellent biodegradability, transparency, processability, and strength characteristics (see p. [0021]).

Kitamura teaches application of the disclosed biodegradable material in pharmaceuticals (see p. [0055] and p. [0060]), medical products (see p. [0060]), medical material (see p. [0063] and [0067]), and medical appliances (see p. [0063] and [0067]). However, Kitamura does not explicitly teach use of the biodegradable material in tablets.

Weissmuller teaches alpha-1,4-glucan chain containing polysaccharides (see col. 1, lines 11-13). The disclosed polysaccharides may be used as tablet fillers (see col. 6, lines 21-23).

Kitamura or Weissmuller do not explicitly teach use of the glucan containing polysaccharides as disintegrants, however, polysaccharides such as amylose are known disintegrants in the tableting art (see Dobetti, col. 4, lines 35-54).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to disclose a disintegrant for tablets consisting of an alpha-1,4-glucan having a degree of polymerization of not less than 180 and less than 1230 and a dispersity of not more than 1.25, as taught by Kitamura in view of Weissmuller further in view of Dobetti. One of ordinary skill in the art at the time the invention was made would have been motivated to make such a product because it has excellent

Application/Control Number: 10/569,582

Art Unit: 1615

biodegradability, transparency, processability, and strength characteristics, as explained by Kitamura (see above).

* * * * *

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3,73(b).

Claims 1 and 2 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-12 of U.S. Patent No. 7,759,316 ('316) in view of U.S. Patent No. 6,677,142 ("Weissmuller") further in view of U.S. Patent No. 6,596,311 ("Dobetti").

Although the conflicting claims are not identical, they are not patentably distinct from each other because '316 claims a biodegradable article formed from enzyme-synthesized amylose, wherein the enzyme-synthesized amylose is composed of

Application/Control Number: 10/569.582

Art Unit: 1615

glucose monomers exclusively bonded by alpha-1,4-glucosidic linkage, and the enzyme-synthesized amylose has a weight average molecular weight of not less than 100 kDa, and the enzyme-synthesized amylase has a molecular weight distribution of not more than 1.25 (claim 1). '316 does not explicitly teach use of the biodegradable material in tablets. Weissmuller teaches alpha-1,4-glucan chain containing polysaccharides (see col. 1, lines 11-13). The disclosed polysaccharides may be used as tablet fillers (see col. 6, lines 21-23). '267 or Weissmuller do not explicitly teach use of the glucan containing polysaccharides as disintegrants, however, polysaccharides such as amylose are known disintegrants in the tableting art (see Dobetti, col. 4, lines 35-54). See 35 USC 103 rejection, above.

As such, a person of ordinary skill in the art at the time the instant application was filed would have found claims 1 and 2 of the instant application prima facie obvious over claims 1-12 of U.S. Patent No. 7,759,316 in view of U.S. Patent No. 6,677,142 ("Weissmuller") further in view of U.S. Patent No. 6,596.311 ("Dobetti").

A.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HASAN AHMED whose telephone number is (571)272-4792. The examiner can normally be reached on 9am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert A. Wax can be reached on (571)272-0623. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/569,582 Page 7

Art Unit: 1615

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free).

/Robert A. Wax/ Supervisory Patent Examiner Art Unit 1615